MOLYKOTE® High-Vacuum Grease

Stiff, nonmelting silicone lubricating material

Features & benefits

- Reduces wear in plastic-to-metal and rubber-to-metal contact
- Low volatility
- Excellent resistance to water, chemicals, and high and low temperatures
- Meets requirements of FDA 21 CFR 175.300

Composition

- Silicone oil
- Inorganic thickener

Applications

Seals and lubricates chemical processing equipment. Lubricating plug valves, control valves, flow meter bearings, ceramic plug cocks, fire extinguisher valves, water treating equipment, synthetic rubber gaskets and seals in high-temperature applications. Sealing vacuum and pressure systems. Lubricating O-rings in binoculars and telescopes; prevents fogging of delicate lenses.

Performance data

Solubility

MOLYKOTE® High-Vacuum Grease is insoluble in water, methanol, ethanol, acetone, glycol and glycerine. It can be dispersed in kerosene, Stoddard solvent, benzene, toluene, ethyl ether or petroleum ether.

Chemical resistance

MOLYKOTE® High-Vacuum Grease is unaffected by most vegetable and minerals oils, many organic compounds, and most common gases. It is also resistant to most aqueous solutions of inorganic salts and to dilute acids and alkalies. The suitability of MOLYKOTE® High-Vacuum Grease should always be tested before the material is adopted for regular use.

Handling precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION.

Typical properties

Specification writers: These values are not intended for use in preparing specifications. Please contact your local MOLYKOTE® sales representative prior to writing specifications on this product.

Standard[1]	Test	Unit	Result
	Color		White to gray, translucent
	Physical nature		Stiff compound
ISO 2137	Penetration, unworked	mm/10	170 to 230
ISO 2137	Penetration, worked 60, maximum	mm/10	<260
CTM 0033A A	Bleed, 24 hours; 200°C	%	<0.5
CTM 0033A B	Evaporation, 24 hours; 200°C	%	<2.0
	Melting point	°C	None

[1]ISO: International Organization for Standardization. CTM: Corporate Test Method; copies of CTMs are available on request.

Usable life and storage

When stored at or below 30°C in the original unopened containers, this product has a usable life of 60 months from the date of production.

Packaging

This product is available in different standard container sizes. Detailed container size information should be obtained from your nearest MOLYKOTE® sales office or MOLYKOTE® distributor.

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